

82 Gilbert Street Adelaide SA, 5000 Australia ellex.com

+61 8 8104 5200 +61 8 8221 5651

Attachment 5: 510(k) Summary

*Submitter's Name:

Submitter's Address:

Contact Person:

Contact Details:

Date Summary Prepared:

Trade Name of Modified Device:

(For which this Special 510(k) is being submitted)

Common Name of Modified Device:

(For which this Special 510(k) is being submitted)

Classification of Device:

Trade Name of Predicate Device:

Common of Predicate Device:

Classification of Device:

Description of the Device:

K081565

JUL - 2 2008

Ellex Medical Pty. Ltd. *Manufacturing and packaging.

82 Gilbert Street Adelaide, South Australia, 5000 AUSTRALIA

Kevin Howard, Senior Regulatory Officer

Tel +61 8 8104 5200 Fax +61 8 8221 5645 Email: khoward@ellex.com

May 27, 2008

Integre Pro

Photocoagulator Ophthalmic Laser

Class II, HQF; GEX, Ophthalmic Laser

Ellex Integre Duo LP1RG

Photocoagulator Ophthalmic Laser

Class II, Ophthalmic Laser

The Integre Pro L2RY is an addition to the Ellex range of ophthalmic photocoagulators. The Integre family are designed for use by ophthalmologists in a clinic or outpatient facility, or in the Retinal Specialist's office.

It is capable of producing focused pulses of red or yellow light with wavelengths of 670 nanometres (nm) and 561 nm respectively. The red and yellow beams may be used for the same treatments, but the red gives increased penetration of haemorrhaging tissue and fluids, and may also be used to treat ocular melanomas.

The Integre Pro L2RY is based upon the Integre Duo LP1RG with a modification to the laser cavity optical components which results in a yellow (561 nm) treatment laser output.



82 Gilbert Street Adelaide SA, 5000 Australia eliex.com

+61 8 8104 5200 +61 8 8221 5651

The principle reasons for modifying the current model Integre Duo and creating the Integre Pro are for the following:

- Clinical versatility. That is, being able to offer most treatment capabilities with just two clinically proven wavelengths, red and yellow with sufficient power to treat not only the macular but also wherever green laser is indicated.
- Fully integrated design platform
- Flexibility, integrated design but still allows for adaption to a variety of slit lamps and delivery systems

As with the Integre Duo, the laser pulses are accurately positioned on a structure within the patient's eye with the aid of a delivery device. The delivery device is an integrated slit-lamp microscope. An optional Laser Indirect Ophthalmoscope (LIO) can also be used.

The Integre Pro is an ophthalmic photocoagulator laser designed to be used by ophthalmologists for treatment of ocular pathology of the eye. It has identical intended uses as the previously cleared Integre Duo LP1RG, 510(k) K052777 and Integre LP561, 510(k) K080423.

The Indications for Use statement can be found in Attachment 2

Comparison of Technological Characteristics:

Refer to the following tables for a comparison of the Integre Pro with the Integre Duo LP1RG and other commercially available predicate devices

Intended Use:



	82 Gilbert Street Adelaide SA, 5000 Australia ellex.com +61 8 8104 5200 +61 8 8221 5651		
Characteristic compared Elex-Integre Pro-L	Ellex-integra-Pro-LZRY	Ellex Integre Duo LPTRG; K052777	Ellex Integre LP561; K080423
Laser Type	True CW Diode-Pumped Solid- State (DPSS)	True CW Diode-Pumped Solid- State (DPSS)	True CW Diode-Pumped Solid- State (DPSS)
Laser Wavelength	561 nm (yellow) 670 nm (red)	532 nm (green) 670 nm (red)	561 nm (yellow)
Laser Power	50-1500 mW (yellow) 50-1500 mW (red)	50-2000 mW (green) 50-1500 mW (red)	50-1500 mW (yellow)
Exposure time settings (pulse duration)	0.01 to 4.0 seconds adjustable in variable increments	0.01 to 4.0 seconds adjustable in variable increments	0.01 to 4.0 seconds adjustable in variable increments
Repeat mode intervals	0.1 to 1.0 seconds	0.1 to 1.0 seconds	0.1 to 1.0 seconds
Laser Safety Class	4/lV	4/IV	ATIV
Spot Size	50 to 1000 um	* 50 to 1000 III III	EO + C + C + C + C C + C C C C C C C C C

	Ellex Integre LP561; K080423	Semi conductor laser diode		635 -5/+10 nm	A THE STATE OF THE PROPERTY OF	Part of Section 1965 and the Section of Section 1965 and the Section of Section 1965 and the
	Ellex Integre Duo LP1RG: K052777	Semi conductor laser diode	<1 mW	635 -5/+10 nm		
III glasers of devices	Éllèx Integre Pro L2RY	Semi conductor laser diode	41 mm In the control of th	635 -5/+10 nm		
CONTIDATISON LADIE - AIMING lasers of devices	Characteristic compared	Aiming Laser Type	Aiming Laser Power	Aiming Wavelength	Laser Safety Class	



82 Gilbert Street Adelaide SA, 5000 Australia ellex.com +61 8 8104 5200

32 kg (un-packed system w/out stand) Air cooled with integrated active +10 C to +40 C; RH 10 to 85% -10 C to +55 C; RH 10 to 85% Console H123 x W434 x D512 Ellex Integre LP561; thermo-electric cooler (TEC) K080423 100-240VAC; 800VA 50/60Hz 32 kg (un-packed system w/out Air cooled with integrated active +10 C to +40 C; RH 10 to 85% -10 C to +55 C; RH 10 to 85% Console H123 x W434 x D512 thermo-electric cooler (TEC) Ellex Integre Duo LP1RG; 100-240VAC; 800VA Comparison Table – Electrical and Mechanical Characteristics of Devices K052777 50/60Hz stand) 32 kg (un-packed system w/out Console/table top H100 x W834 x D436 mm (proposed) +10 C to +40 C; RH 35 to 85% Air cooled with integrated active -10 C to +55 C; RH 35 to 85% Ellex Integre Pro L2RY thermo-electric cooler (TEC) 100-240VAC; 800VA stand) (broposed) 50/60Hz Mains Electrical Supply Voltage Operating Temperature Range Characteristic compared Transport & Storage Temperature Range Supply Frequency Cooling (console) Weight Size

Comparison Table -Delivery Devices	Devices		
Delivery Device	Ellex Integre Pro L2RY	Ellex Integre. Duo LP1RG; K052777	Ellex Integre LP561; 510(k) K080423
Slit Lamp Delivery System (SDS)		Treatment & aiming lasers integrated into slit lamp microscope.	Treatment & aiming lasers integrated into slit lamp microscope.
Laser Indirect Ophthalmoscope (LIO)	Ellex LIO.	Laser Indirect Ophthalmoscope Ellex LIO. Ellex LIO.	Ellex LIO.

Comparison Table - Standard Accessories	ard Accessories		
Accessory	Ellex Integre Pro L2RY	Elex Integre Duo LP1RG; K052777	Ellex Integre LP561; 510(k) K080423
Footswitch	Collapsible footswitch. Power control footswitch	Collapsible footswitch. Power control footswitch	Collapsible footswitch. Power control footswitch
e de de la company de la c La company de la company d	accessory available.	accessory available.	accessory available.
Remote Control Unit (RCU)	Colour LCD model.	Monochrome LCD model.	Monochrome LCD model.
Safety Filter	Fixed eye safety filter. Moveable eye safety filter as an accessory.	Moveable eye safety filter.	Moveable eye safety filter.
Table/stand	Integrated table and stand	Choice of Ellex Total Solution Stand	Choice of Ellex Total Solution Stand



82 Gilbert Street Acelaide SA, 5000 Australia ellex.com +61 8 8104 5200 +61 8 8221 5651

Elley Integra Pro 1987	Ellav Integra Duo I DADG: K059777	THE STATE OF THE PROPERTY OF T
	Cliex III (eg) e Duo LF (Fig. NOSZI) /	Ellex Integre LP301; K080423
Photocoagulation of both anterior & posterior	Photocoagulation of both anterior and posterior	Photocoagulation of both anterior & posterior
segments of the eye including:	segments of the eye including:	segments of the eye including:
 Retinal photocoagulation & pan retinal 	 Retinal photocoagulation & pan retinal 	 Retinal photocoagulation & pan retinal
photocoagulation of vascular & structural	photocoagulation of vascular & structural	photocoagulation of vascular & structural
abnormalities of the retina & choroid	abnormalities of the retina & choroid including:	abnormalities of the retina & choroid
including:	 proliferative & nonproliferative diabetic 	including:
 proliferative & nonproliferative diabetic 	retinopathy;	 proliferative & nonproliferative diabetic
retinopathy;	- choroidal neovascularization;	retinopathy;
 choroidal neovascularization; 	- branch retinal vein occlusion;	- choroidal neovascularization;
 branch retinal vein occlusion; 	- age-related macular degeneration	- branch retinal vein occlusion;
 age-related macular degeneration 	- retinal tears & detachments	- age-related macular degeneration
 retinal tears & detachments 	 retinopathy of prematurity 	- retinal tears & detachments
 retinopathy of prematurity 	 Iridotomy, iridectomy, suturelysis & 	 retinopathy of prematurity
 Iridotomy, iridectomy, suturelysis & 	trabeculoplasty in angle closure glaucoma and	Iridotomy, iridectomy, suturelysis &
trabeculoplasty in angle closure glaucoma	open angle glaucoma	trabeculoplasty in angle closure glaucoma &
& open angle glaucoma		open angle glaucoma
))		
		~** 13 T

	05.17	was to day
	v	
	tente de la contraction de la	
to destruit the season of the	A Control of the Cont	



82 Gilbert Street Adelaide SA, 5000 Australia eflex.com

- +61 8 8104 5200
- +61 8 8221 5651

Conclusion:

Ellex Medical has demonstrated by its evaluation of the Integre Pro L2RY that modification to the predicate device, the Integre Duo LP1RG, does not adversely affect the intended use, technological characteristics or safety and effectiveness.



Food and Drug Administration 9200 Corporate Boulevard Rockville MD 20850

JUL - 2 2008

Ellex Medical Pty. Ltd. c/o Kevin Howard, Senior Regulatory Officer 82 Gilbert Street Adelaide, South Australia, 5000 AUSTRALIA

Re: K081565

Trade/Device Name: Integre Pro, Model L2 Regulation Number: 21 CFR 886.4390 Regulation Name: Ophthalmic Laser

Regulatory Class: Class II

Product Code: HQF Dated: May 27, 2008 Received: June 4, 2007

Dear Mr. Howard:

We have reviewed your Section 510(k) premarket notification of intent to market the device referenced above and have determined the device is substantially equivalent (for the indications for use stated in the enclosure) to legally marketed predicate devices marketed in interstate commerce prior to May 28, 1976, the enactment date of the Medical Device Amendments, or to devices that have been reclassified in accordance with the provisions of the Federal Food, Drug, and Cosmetic Act (Act) that do not require approval of a premarket approval application (PMA). You may, therefore, market the device, subject to the general controls provisions of the Act. The general controls provisions of the Act include requirements for annual registration, listing of devices, good manufacturing practice, labeling, and prohibitions against misbranding and adulteration.

If your device is classified (see above) into either class II (Special Controls) or class III (PMA), it may be subject to such additional controls. Existing major regulations affecting your device can be found in the Code of Federal Regulations, Title 21, Parts 800 to 898. In addition, FDA may publish further announcements concerning your device in the <u>Federal Register</u>.

Please be advised that FDA's issuance of a substantial equivalence determination does not mean that FDA has made a determination that your device complies with other requirements of the Act or any Federal statutes and regulations administered by other Federal agencies. You must comply with all the Act's requirements, including, but not limited to: registration and listing (21 CFR Part 807); labeling (21 CFR Part 801); good manufacturing practice requirements as set forth in the quality systems (QS) regulation (21 CFR Part 820); and if applicable, the electronic product radiation control provisions (Sections 531-542 of the Act); 21 CFR 1000-1050.

This letter will allow you to begin marketing your device as described in your Section 510(k) premarket notification. The FDA finding of substantial equivalence of your device to a legally marketed predicate device results in a classification for your device and thus, permits your device to proceed to the market.

If you desire specific advice for your device on our labeling regulation (21 CFR Part 801), please contact the Center for Devices and Radiological Health's (CDRH's) Office of Compliance at (240) 276-0115. Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21 CFR Part 807.97). For questions regarding postmarket surveillance, please contact CDRH's Office of Surveillance and Biometric's (OSB's) Division of Postmarket Surveillance at 240-276-3474. For questions regarding the reporting of device adverse events (Medical Device Reporting (MDR)), please contact the Division of Surveillance Systems at 240-276-3464. You may obtain other general information on your responsibilities under the Act from the Division of Small Manufacturers, International and Consumer Assistance at its toll-free number (800) 638-2041 or (240) 276-3150 or at its Internet address http://www.fda.gov/edrh/industry/support/index.html.

Sincerely yours,

Malvina B. Evdelman, M.D.

Director

Division of Ophthalmic and Ear, Nose

and Throat Devices

Office of Device Evaluation

Center for Devices and

Radiological Health

Enclosure



82 Gilbert Street Adelaide SA, 5000 Australia ellex.com

÷ +61 8 8104 5200

*+61 8 8221 5651

Attachment 2

	Indications for Use Statement
510(k) Number (if known	K081565
Device Name: Ellex Integ	re Pro L2RY ophthalmic laser.
Indications for Use:	
treatment of ocular pathod. The Ellex Integre Pro L2F segments of the eye inclusion abnormalities of the reproliferative and reconsiderative and reconsiderative and reconsiderative and reconsiderative and retinal retinal tears and retinal tears and retinopathy of present indication, indectomy angle glaucoma	RY is indicated for use in photocoagulation of both anterior and posterior uding: ation and pan retinal photocoagulation of vascular and structural retina and choroid including: nonproliferative diabetic retinopathy; cularization; nocclusion; lar degeneration; detachments;
Prescription UseX (Part 21 CFR 801 Subpa	AND/OR Over-The-Counter Use rt D) (21 CFR 801 Subpart C)
(PLEASE DO NOT WRITE	E BELOW THIS LINE-CONTINUE ON ANOTHER PAGE IF NEEDED)
Con	Currence of CDRH, Office of Device Evaluation (ODE) Control C
Page 1 of	510(k) Number K081565